



Practical 12

Aim: To perform the concept of cursor

- (a) Display all the information of EMP table using %ROWTYPE.
- (b) Create a PL/SQL block that does the following:

In a PL/SQL block, retrieve the name, salary, and MANAGER ID of the employees working in the particular department. Take Department Id from user.

If the salary of the employee is less than 1000 and if the manager ID is either 7902 or 7839, display the message << last name>> Due for a raise. Otherwise, display the message << last name>> Not due for a raise.

(c) In a loop, use a cursor to retrieve the department number and the department name from the DEPT table for those departments whose DEPT_ID is less than 100. Pass the department number to another cursor to retrieve from the EMP table the details of employee name, job, hire date, and salary of those employees whose EMP_NO is less than 7566 and who work in that department

i)

Query:

```
declare
  cursor c1 is select * from employee;
  v1 c1%rowtype;
begin
   open c1;
loop
  fetch c1 into v1;
   exit when c1%notfound;
dbms_output.put_line(v1.emp_no || ' || v1.emp_name || ' || v1.emp_sal || ' '
||v1.emp_comm || ' '||v1.dept_no || ' || v1.l_name || ' '||v1.dept_name || ' '
||v1.job_id || ' '||v1.location || ' '||v1.manager_id || ' '||v1.hiredate);
end loop;
close c1;
end;
```





Output:

```
User: 22DCE006
Home > SQL > SQL Commands
 ✓ Autocommit Display 10
 cursor c1 is select * from employee;
 Results Explain Describe Saved SQL History
101 smith 800 10 shah machine learning fi_mgr toronto 105 09-AUG-96
102 snehal 1600 300 25 gupta data science lec las vegas 14-MAR-96
103 David 1100 500 20 wales machine learning mk_mgr ontario 105 30-NOV-95
104 aman 3000 10 sharma virtual reality comp_op mexico 12 02-OCT-97
105 anita 5000 50000 10 patel big data analytics comp_op germany 107 01-JAN-98
106 sneha 2450 24500 10 joseph big data analytics fi_acc melbourne 105 26-SEP-97
107 anamika 2975 30 jha artificial intelligence it prog new york 15-JUL-97
Statement processed.
0.03 seconds
ii)
Query:
declare
D no number:=:ENter no;
cursor c2 is select emp name, emp sal, manager id from employee where
DEPT NO=D no;
v2 c2%rowtype;
begin
  open c2;
loop
  fetch c2 into v2;
if v2.emp sal<1000 and (v2.manager id = 7902 or v2.manager id = 7839)
then
     dbms output.put line(v2.emp name|| 'It is for raise.');
else
 dbms output.put line(v2.emp name|| 'It is not for raise.');
end if;
exit when c2%notfound;
end loop;
```





close c2; end;

Output:

```
User: 22DCE006
Home > SQL > SQL Commands
 Autocommit Display 10
                              ~
    fetch c2 into v2;
 if v2.emp\_sal<1000 and (v2.manager\_id = 7902 or v2.manager\_id = 7839) then
         dbms_output.put_line(v2.emp_name|| ' It is for raise.');
 else
  dbms_output.put_line(v2.emp_name|| ' It is not for raise.');
 end if;
 exit when c2%notfound;
 end loop;
 close c2;
end;
 Results Explain Describe Saved SQL History
 It is not for raise.
```

iii)

Query-Output:





Conclusion: By performing this practical, I got to learn about concept of %rowtype and how to create cursor and use it to fetch the original table information using the cursor in PL-SQL Block.

Staff Signature:

Grade:

Remarks by the Staff: